

SHIP: USS LASALLE (AGF-3)

ITEM NO: 261-11-005

COAR: 16-537

PCN: EB14-2386

CMP: NONE

SURVEYOR: BETTS

1. SCOPE:

1.1 Title: Fuel Oil Tank Suction Piping; replace

1.2 Location of Work:

1.2.1 Main Machinery Room Number One (7-96-0-E)

1.2.2 Fuel Oil Tank (8-136-5-F)

1.2.3 Fuel Oil Tank (8-120-7-F)

1.2.4 Fuel Oil Tank (8-108-3-F)

1.2.5 Ballast Tank (8-108-1-W)

1.3 Identification:

1.3.1 Quantity (200 Feet), 4 Inch IPS, Fuel Oil Tank Suction Piping, From and Including Stbd Forward Fuel Oil Manifold (V-5401), to the First Fitting Outboard of the Main Machinery Room Bulkhead, Including Connection Flanges to Manifold and Associated Fittings

1.3.2 Quantity (3 Each), 4 Inch IPS, Fuel Oil Tank Isolation Valves, Gate, Steel, 150 LB, navy, MIL-V-20231, Class 1

1.3.3 Quantity (4 Each), 1/4 Inch IPS, Sample valves, Globe, MIL-V-24586, Carbon Steel A105, Located on Fuel Oil Manifold V-5401

2. REFERENCES:

a. Standard Items

b. 511-1775124 Rev B, F. O. Transfer Piping in F. O. Tanks-Fwd BHD 148 Arrgt.

c. 511-1775149 Rev L, F. O. Trans & Serv. Suct. Piping L/M Gen Notes & Ref's

d. 511-1777753 Rev B, F. O. Trans & Serv Suct Mn Machy Rm No 1 Plan

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- e. 511A-1775143 Rev B, LPD 1 F. O. Transfer System 4 Inch Manifolds
- f. MIL-STD-777, Schedule of Piping, Valves, Fittings, and Associated Piping Components for Naval Surface Ships
- g. 810-4714432 Rev G, NNSY Standard Drawing, Std Pipe Hangers Fabrication Dets & Instl Instr (Non-Nuc Constr)
- h. 803-1385866, Penetration Bulkhead & Deck
- i. 541-6686982 Rev A, Fuel Oil Piping, Flushing Procedure For Surface Ships

3. REQUIREMENTS:

3.1 Remove the fuel oil tank suction piping, manifold, sample valves, tank isolation valves, flanges and fittings listed in 1.3, as designated by the SUPERVISOR, using 2.b through 2.e for guidance.

3.1.1 Chip and grind surfaces flush in way of repairs.

3.1.2 Restore piping flange mating surfaces exposed by disassembly of piping system. Repair by removing high spots, burrs, abrasions, and foreign matter, where removal can be accomplished by hand tools. Take precautions to maintain phonographic finish on flanges that have it.

3.2 Install new fuel oil tank suction piping, manifold, sample valves, tank isolation valves, flanges, fittings, fasteners and gaskets in the same location and configuration as that removed in 3.1, using 2.b through 2.e for guidance. New materials shall conform to 2.f, including Category and Group E-3.

3.2.1 Install new hangers to support the new fuel oil tank suction piping and prevent vibration in accordance with 2.g.

3.2.2 Install new bulkhead and deck sleeves in accordance with 2.h.

3.2.3 The carbon steel piping shall be MIL-P-24691 or ASTM A 106, Grade A or B, Schedule 40.

3.2.4 Install blank flange on manifold connection in lieu of valve 1FO-18, as per the SUPERVISOR.

3.3 Accomplish the requirements of 009-12 of 2.a, including Table One, Column A, Lines One through 10 and Table 2, Column A, Lines One through 7.

3.4 Accomplish the requirements of 009-25 of 2.a for the air hose test of bulkhead sleeves welded seams. Allowable leakage: None.

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3.5 Accomplish the requirements of 2.i for the new fuel oil tank suction piping and fittings.

3.6 Accomplish the requirements of 009-71 of 2.a for new and disturbed fuel oil tank suction piping and fittings using clean, dry air or nitrogen at 10 psig.

3.7 Accomplish the requirements of 009-32 of 2.a for the new and disturbed surfaces.

(V) (G) "OPERATIONAL TEST"

3.8 Test the new and disturbed fuel oil tank suction piping and fittings under operating conditions. Allowable leakage: None.

4. NOTES:

4.1 Suggested source for fuel oil manifold:

Tate Andale
Baltimore, Md
Phone 410-247-4700
Fax 410-247-9672
POC: Dave Button

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5. GOVERNMENT FURNISHED MATERIAL (GFM):

	<u>QTY</u>	<u>UI</u>	<u>NAME OF PART/ DESCRIPTION</u>	<u>PIECE NO.</u>	<u>REF. NO.</u>	<u>NATIONAL STOCK NO.</u>	<u>PARA NO.</u>
5.1	PUSH MATERIAL:						
1.	None.						
5.2	KITTED MATERIAL:						
1.	None.						
5.3	LLTM:						
1.	2	Ea.	4 Inch IPS Elbow, BTWLD F-33 45 Degree, Steel DO NOT ORDER-See SSP- 536-02	2.c		9C4730006406252	3.2
2.	17	Ea.	4 Inch IPS Elbow, BTWLD F-9 90 Degree, Steel DO NOT ORDER-See SSP- 536-02	2.c		9C4730002784772	3.2
3.	12	Ea.	4 Inch IPS Bulkhead Penetration, Steel DO NOT ORDER-See SSP- 536-02	F-7	2.c	9G2040002775787	3.2
4.	4	Ea.	4 Inch IPS Slip-On Flg. J-6 (Navy) Steel DO NOT ORDER-See SSP- 536-02		2.c	9C4730002568561	3.2
5.	20	Ea.	4 Inch IPS Hanger Assy Type 12, Steel DO NOT ORDER-See SSP- 536-02	---	---	9C5340LLL990105	3.2
6.	200	Ft.	4 Inch IPS Pipe, Steel, P-50002.c Sch 40-DO NOT ORDER-See SSP-536-02			9C4710003475111	3.2
7.	50	Ea.	4 Inch IPS Split Type Backing Rings, Steel DO NOT ORDER-See SSP- 536-02	---	---	9C4730LLL870629	3.2

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8.	4	Ea. 4 Inch x 6 Inch IPS Concentric Rdcr, Steel DO NOT ORDER-See SSP 536-02	---	---	9C4730005295112	3.2
9.	100	Ft. 1-1/4 Inch x 1/8 Inch Fiberglass Wrap DO NOT ORDER-See SSP 536-02	---	---	5330011714029	3.2
10.	12	Ea. 4 Inch IPS 150 LB Flex Gaskets	---	---	9Z5330013387835	3.2
11.	32	Ea. 1/2-13UNC x 2-1/2 Studs B-3 DO NOT ORDER-See SSP- 536-02		2.c	9Z5307006376465	3.2
12.	64	Ea. 1/2-13UNC Hex Nuts DO NOT ORDER-See SSP- 536-02	N-2	2.c	9Z5310006373628	3.2
13.	2	Ea. 4 Inch IPS Elbow, BTWLD, F-9 90 Degree, Steel		2.c	9C4730002784772	3.2
14.	64	Ea. 1/2-13UNC x 2-1/2 Inch Studs, Steel	---	---	9Z5307006376465	3.2
15.	132	Ea 1/2-13UNC Hex Nuts, Steel	---	---	9Z5310006373628	3.2
16.	8	Ea 3/4-10UNC x 1-1/2 Inch Long, Hex Head Bolts, Steel, MIL-S-1222, Gr 5	---	---	-----	3.2
17.	12	Ea 5/8-11UNC x 3-1/2 Inch Studs, Steel	---	---	9Z5307006376474	3.2
18.	24	Ea 5/8-11UNC Hex Head Nuts Steel	---	---	9Z5310006373634	3.2
19.	One	Ea 6 Inch IPS, Gasket, Flex Type, 150 LB, Steel	---	---	9Z5330013387812	3.2
20.	4	Ea 4 Inch IPS, Valve, Gate, 150 LB, Navy, Steel, MIL-V-18110, Class 150, Comp D	---	---	-----	3.2

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21.	One	Ea	4 Inch IPS, Fuel Oil Transfer Manifold, V-5401, 4 Valve Manifold	---	2.e	-----	3.2
22.	One	Ea	4 Inch IPS, Blind Flange--- 150 LB, Steel, A105Navy, Raised Face	---	---	-----	3.2
23.	4	Ea	1/4 Inch IPS, Valve, A105--- MIL-V-24586	---	---	9C4820010853346	3.2